

What is claim d is:

1. An electrical power-generating device comprising: an outer shell, at least one power generation unit, at least one centerboard, a transmission axis a gear set and a starting device ; wherein, at least one of said power generation unit and
 5 at least one centerboard installed vertically to said transmission axis, said centerboard installed inside said outer shell and having a plurality permanent magnets, a plurality coil sets located on both sides of said power generation unit, when said starting device rolling and turning said centerboards on said transmission axis, the movement generates electrical power when a plurality
 10 permanent magnets pass through a plurality coil sets.

2. The electrical power-generating device recited in claim 1, wherein said power generation unit further comprising:

a first power generation portion consisting of a plurality first coil sets and a first PCB, every said first coil set consists of an input, an output and is wrapped in a
 15 first core, said first PCB has a plurality through hole; and

a second power generation portion consisting of a plurality second coil sets and a second PCB, every said second coil set consists of an input, an output and is wrapped in a second core, said second PCB has a plurality through holes.

3. The electrical power-generating device recited in claim 1, wherein the outer
 20 side of said first PCB and said second PCB having at least one screw hole, screws or other fixing devices can pass through those said screw holes to fix said first power generation portion and said second power generation portion respectively.

4. The electrical power-generating device recited in claim 1, wherein said gear set being installed on one end of said outer shell.

25 5. The electrical power-generating device recited in claim 1, wherein said starting device can be brought up by wind, water or manpower to turn said gear set and said power generation unit for electrical power.

6. The electrical power-generating device recited in claim 1, wherein said centerboard further comprising:

a third round hole located on the center of said centerboard; and

5 a sleeve tube passing through said third round hole, the thicknesses on two ends of said sleeve tube are different.

7. The electrical power-generating device recited in claim 2, wherein three said through hole being grouped into a set in triangle shape.

8. The electrical power-generating device recited in claim 2, wherein said first core and said second core being made of non-conductive material and are in
10 round or elliptical shape, even number in quantity and fixed onto said through holes of said first PCB and said second PCB.

9. The electrical power-generating device recited in claim 2, wherein a plurality said first coil sets and a plurality said second coil sets being inserted into said first PCB and said second PCB in concentric format for stability.

15 10. The electrical power-generating device recited in claim 1, wherein said centerboard having one said permanent magnet corresponding to one said first set coil.

11. The electrical power-generating device recited in claim 1, wherein said centerboard having two said permanent magnets corresponding to one said first
20 set coil.